

CLAIMS

What is claimed is:

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1. An article of manufacture for compressively securing a cathode ray tube (CRT) to a coupler in a projection television system, comprising

a first spring;

a second spring;

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a mechanical coupling means for coupling the first and second springs together;

a first securing means for attaching the first spring to a coupler; and

a second securing means for securing the CRT to the assembled spring arrangement.

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2. The article according to claim 1, wherein the first and second springs are constructed of sheet metal.

3. The article according to claim 1, wherein the first and second
20 springs have a generally elongated shape in a first plane.

4. The article according to claim 3, wherein the first spring has a generally U-shape in a second plane, and is terminated at each end with a mounting flange.

5. The article according to claim 3, wherein the second spring has a shape that is

generally trapezoidal, having at least five segments that are contiguously joined,

5 in that:

a first lateral segment is ended at a boundary with a second segment;

said second segment is oriented an angular displacement from the first segment and traversing both laterally and vertically and ending at a boundary with a third segment;

10 said third segment traversing laterally and parallel to the first segment is ended at a boundary with a fourth segment;

said fourth segment traverses at an angular displacement, such that an adjoining fifth segment has an orientation and axis that is identical to that of the first segment.

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6. The article according to claim 1, wherein the mechanical coupling means comprises:

at least one annulus completely through each spring at a general midpoint of each of the first and second springs for accepting;

20 at least one securing device for attaching the first and second springs together in a generally semi-permanent manner.

7. The article according to claim 6, wherein the securing device comprises one or more from the group consisting of a screw and a bolt with a retaining nut.

5 8. The article according to claim 1, wherein the first securing means comprises at least one from the group consisting of a screw and a bolt with a retaining nut.

10 9. The article according to claim 1, wherein the second securing means comprises at least one resilient spacer pad located between the second spring and surface of the CRT.

15 10. The article according to claim 1, additionally comprising a resilient seal juxtaposed between the CRT and the coupler, such that lateral movement of one to the other is inhibited.

20 11. A mounting apparatus for securing a cathode ray tube (CRT) to a chassis coupler in a projection television system comprising at least a first and a second tensioned bracket in compressive arrangement with a rear surface of said CRT, each tensioned brackets further comprising;

a first spring element;

a second spring element;

a first attaching means for coupling the first and second spring elements together;

a second attaching means for coupling the first spring element to the coupler; and

5 a third attaching means for compressively coupling the second spring element to the CRT.

12. The mounting apparatus according to claim 11, wherein the first and the second tensioned bracket are symmetrical.

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13. The mounting apparatus according to claim 11, wherein the first and the second tensioned bracket are not symmetrical.